

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/12/99

Date Received: 12/22/98

Project: Metro Self Monitor, PO# M77971

Date Samples Extracted: 01/08/99

Date Extracts Analyzed: 01/11/99

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE  
FOR CHROMIUM, COPPER, NICKEL, ZINC  
USING METHOD 6010**

**Samples Processed Using Method 3005A**

Results Reported as mg/L (ppm)

<u>Sample ID</u>	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M77971	0.42	0.24	0.31	<0.05
Method Blank	<0.05	<0.05	<0.05	<0.05

**FRIEDMAN & BRUYA, INC.**

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**QUALITY ASSURANCE RESULTS  
FOR TOTAL METALS BY  
INDUCTIVELY COUPLED PLASMA (ICP)  
(METHOD 6010)**

Laboratory Code: 812122-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	mg/L (ppm)	0.42	0.46	9	0-20
Copper	mg/L (ppm)	0.24	0.28	15	0-20
Nickel	mg/L (ppm)	0.31	0.31	0	0-20
Zinc	mg/L (ppm)	<0.05	<0.05	nm	0-20

Laboratory Code: 812122-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	% Recovery MS	% Recovery MSD	Acceptance Criteria	RPD
Chromium	mg/L (ppm)	5	0.42	104	101	80-120	3
Copper	mg/L (ppm)	5	0.24	101	95	80-120	6
Nickel	mg/L (ppm)	10	0.31	104	102	80-120	2
Zinc	mg/L (ppm)	5	<0.05	109	105	80-120	4

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD
Chromium	mg/L (ppm)	5	103	102	80-120	1
Copper	mg/L (ppm)	5	102	101	80-120	1
Nickel	mg/L (ppm)	10	102	103	80-120	1
Zinc	mg/L (ppm)	5	103	103	80-120	0

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

# 812122

MM EI  
12-22-98  
11:50

*Send Report To:*

Company Alaska Copper Works Contact Genoa Thompson  
Address 628 Agwood St  
City, State, Zip Seattle WA 98134  
Phone # (206) 382-8529 FAX # (206) 382-4309 Date 12-27-98

SITE NO.

**PROJECT NAME**

**PURCHASE ORDER #**

7238

metro self monitor

M 77971

SAMPLERS (signature)

### PROJECT LOCATION

REMARKS

### SAMPLE DISPOSAL INFORMATION

☐ Dispose after 30 days  
☒ Return Samples  
☐ Call for Instructions

**SIGNATURE**

PRINT NAME

COMPANY

Date \_\_\_\_\_

Time

Relinquished by:

Gerald Thompson

Adi

12/22/88

10:30 am

Received by

MANUEL MARTI

$$: F \mathcal{L} B_T$$

12/22/92

10:30 AM

Reimbursed by:

Received by:

**FRIEDMAN & BRUYA, INC.**

**ENVIRONMENTAL CHEMISTS**

James E. Bruya, Ph.D.  
Charlene Jensen, M.S.  
Bradley T. Benson, B.S.  
Kurt Johnson, B.S.

3012 16th Avenue West  
Seattle, WA 98119-2029  
TEL: (206) 285-8282  
FAX: (206) 283-5044  
e-mail: fbi@isomedia.com

January 12, 1999

**DUPLICATE COPY**

**INVOICE #99ACU0112-2**

Accounts Payable  
Alaskan Copper Works  
628 South Hanford St.  
Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M77971: Results of testing requested  
by Gerry Thompson for material submitted on December 22, 1998.

1 water sample analyzed for  
Chromium, Copper, Nickel, and Zinc  
using Method 6010 @ \$80 per sample

\$ 80.00

Amount Due .....

\$ 80.00

FEDERAL TAX ID: (b) (6)

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.  
Charlene Jensen, M.S.  
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Kurt Johnson, B.S.

3012 16th Avenue West  
Seattle, WA 98119-2029  
TEL: (206) 285-8282  
FAX: (206) 283-5044  
e-mail: fbi@isomedia.com

January 12, 1999

Gerry Thompson, Project Manager  
Alaskan Copper Works  
628 South Hanford St.  
Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on December 22, 1998 from your Metro Self Monitor, PO# M77971 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Manuel Marti  
Project Manager

Enclosures  
ACU0112R.DOC